

**Notice of Allowability**

Application No.

10/539,967

Examiner

Thuy V. Tran

Applicant(s)

DEURLOO ET AL.

Art Unit

2821

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment submitted on 08/31/2007.
2. ☒ The allowed claim(s) is/are 1-8, 10, 12-17 and 19-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 20071112.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**THUY V. TRAN**  
**PRIMARY EXAMINER**

### **DETAILED ACTION**

This Office Action is in response to the Applicants' amendment submitted on 08/31/2007.

In virtue of this amendment, claims 9, 11, and 18 are canceled, claims 20-21 are newly added, and thus, claims 1-8, 10, 12-17, and 19-22 are now presented in the instant application.

#### ***Allowable Subject Matter***

1. Claims 1-8, 10, 12-17, and 19-22 are allowed.

#### ***Reasons for Allowance***

2. The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose or fairly suggest:

- A method for providing bi-state power operation of a HID lamp system wherein the first modulation signal and the second modulation signal comprise square wave signals alternated with a zero signal, and wherein the first and second modulation signals are applied to the driver circuit to generate a low frequency drive signal, in combination with the remaining claimed limitations as called for in independent claim 1 (claims 2-8 are allowed since they are dependent on claim 1);
- A method for providing bi-state power operation of a HID lamp system wherein the first modulation signal and the second modulation signal comprise square wave signals having the same frequency but opposite phase and wherein the first and second modulation signals are simultaneously applied to the driver circuit to generate a high-frequency drive signal, in combination with the remaining claimed limitations as called for in independent claim 10;

- A computer readable medium having computer executable instructions for providing bi-state power operation of a HID lamp system comprising computer readable code for determining a power mode control selection, and computer readable code for producing a first modulation signal and a second modulation signal for enabling a driver circuit to generate a driving signal based on the determined power mode control selection; wherein the first modulation signal and the second modulation signal comprise at least one of square wave signals alternated with zero signal for generating a low frequency drive signal, and square wave signals having the same frequency but opposite phase for generating a high frequency drive signal, in combination with the remaining claimed limitations as called for in independent claim 12 (claims 13-17 are allowed since they are dependent on claim 12);
- A system to provide bi-state power operation of an HID lamp system wherein the first modulation signal and the second modulation signal comprise at least one of square wave signals alternated with zero signal for generating a low frequency drive signal, and square wave signals having the same frequency but opposite phase for generating a high frequency drive signal, in combination with the remaining claimed limitations as called for in independent claim 19 (claim 20 is allowed since it is dependent on claim 19); and
- A system to provide bi-state power operation of an HID lamp system wherein the first modulation signal and the second modulation signal comprise at least one of square wave signals alternated with zero signal for generating a low frequency drive signal, and square wave signals having the same frequency but opposite phase for

generating a high frequency drive signal, in combination with the remaining claimed limitations as called for in independent claim 21 (claim 22 is allowed since it is dependent on claim 21).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

*Comments on drawings*

3. The "Replacement Sheets" of drawings including Figs. 1-2 and 4 submitted on 08/31/2007 are accepted.
4. However, upon a careful review, the drawings are still objected to as failing to comply with 37 CFR 1.84(p)(4) because, in Fig. 3, reference character "130" has been used to designate both "the half-bridge inverter" (shown underneath the switching elements [T1, T2, D1, D2]) and "the lamp". Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

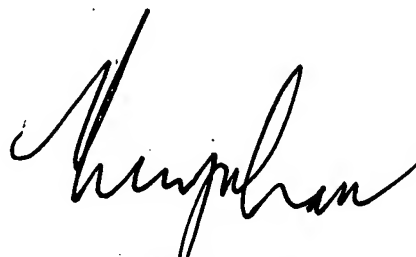
*Inquiry*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -4:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Owens Douglas can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

11/12/2007



**THUY V. TRAN**  
**PRIMARY EXAMINER**